

# Pyrophosphate Protects the mAChR from Inactivation by the LMW Inhibitor (n = 3)

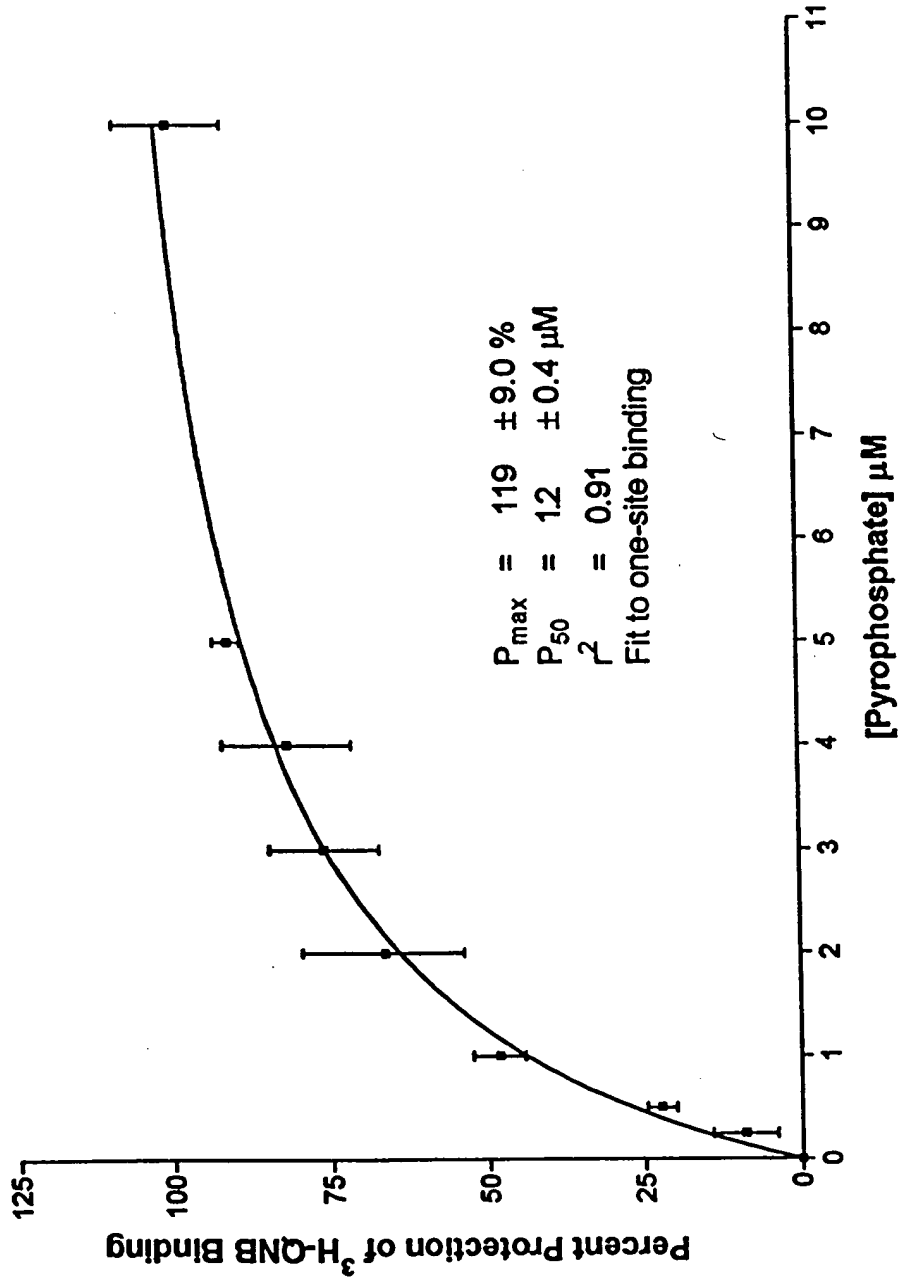
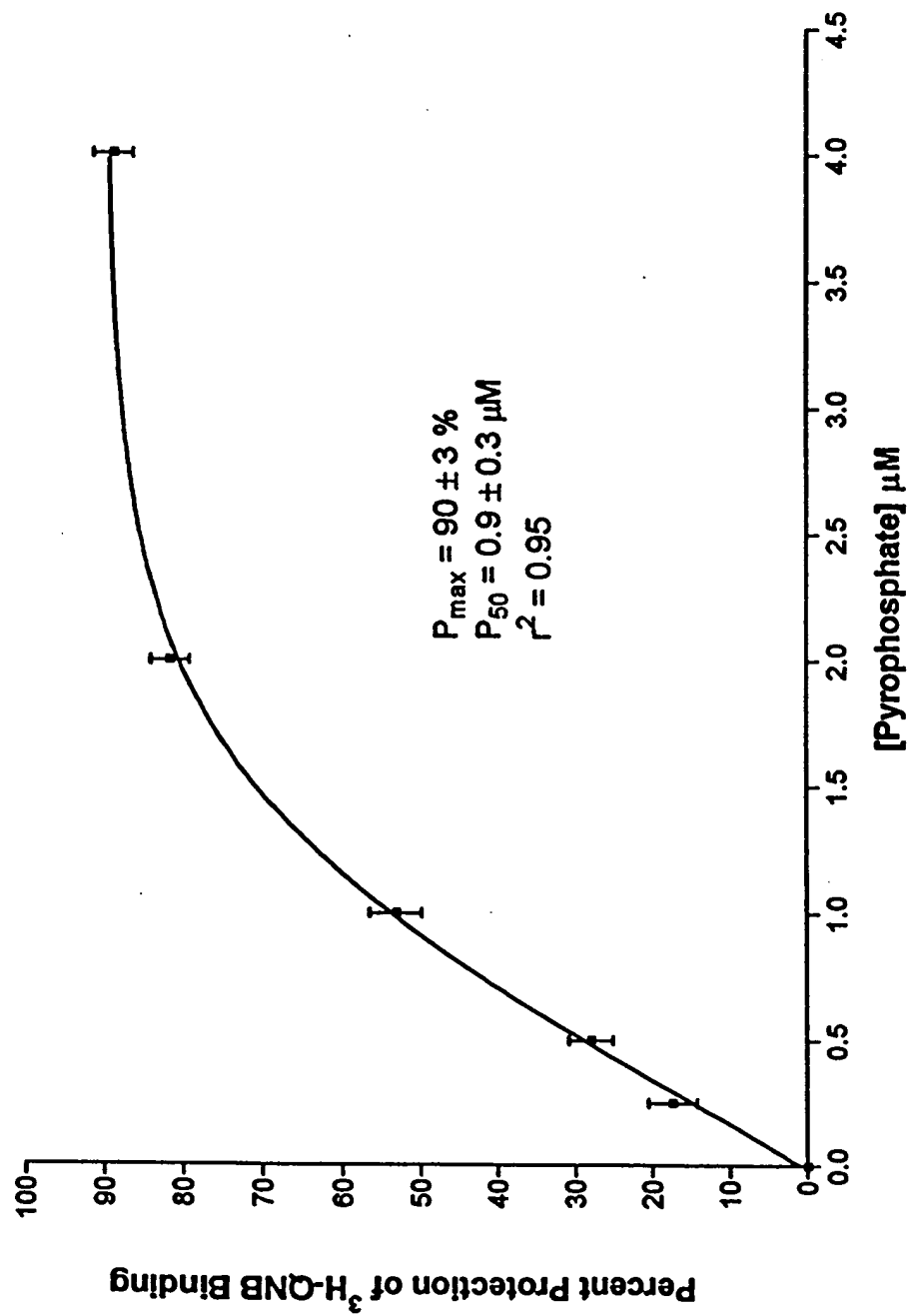


FIGURE 1

**Pyrophosphate Protects the mAChR  
from Inactivation by 2  $\mu$ M Heme and 100  $\mu$ M Peroxide  
(n = 10)**



**FIGURE 2**

Pyrophosphate protects the mAChR from  
inactivation by the LMW inhibitor in a  
2-step agonist binding assay.  
(n = 4)

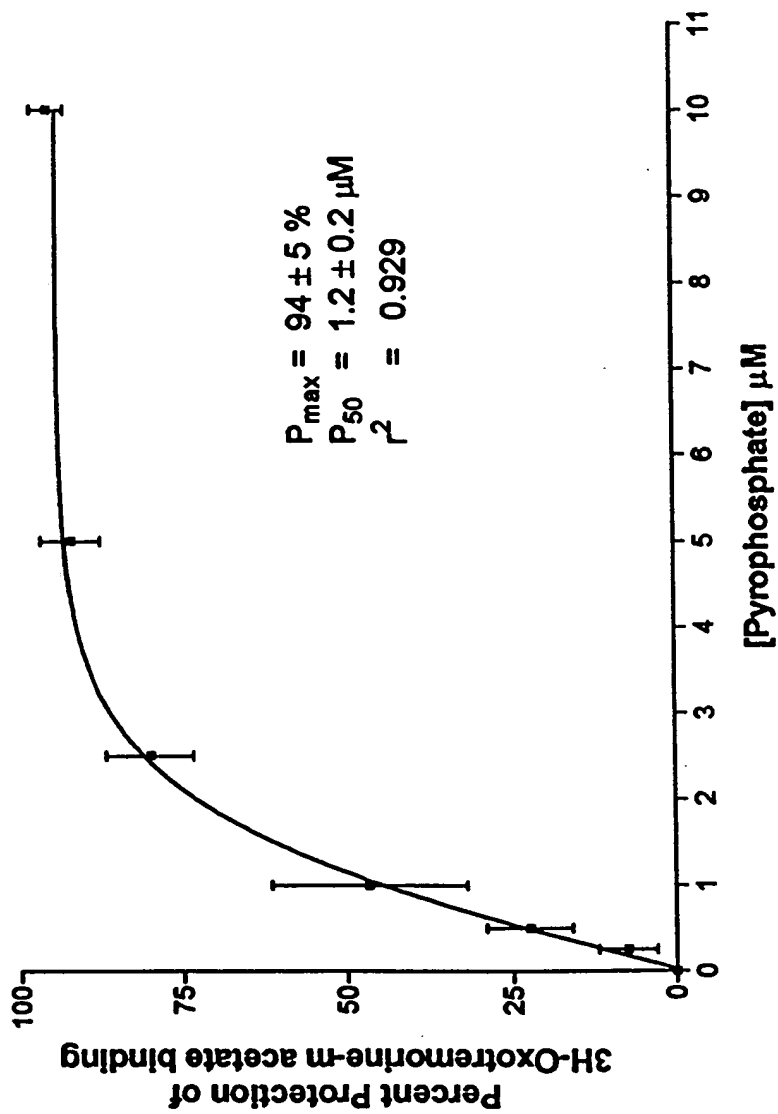


FIGURE 3

Imidodiphosphate protects the mAChR  
from inactivation by the LMW Inhibitor  
(n = 5)

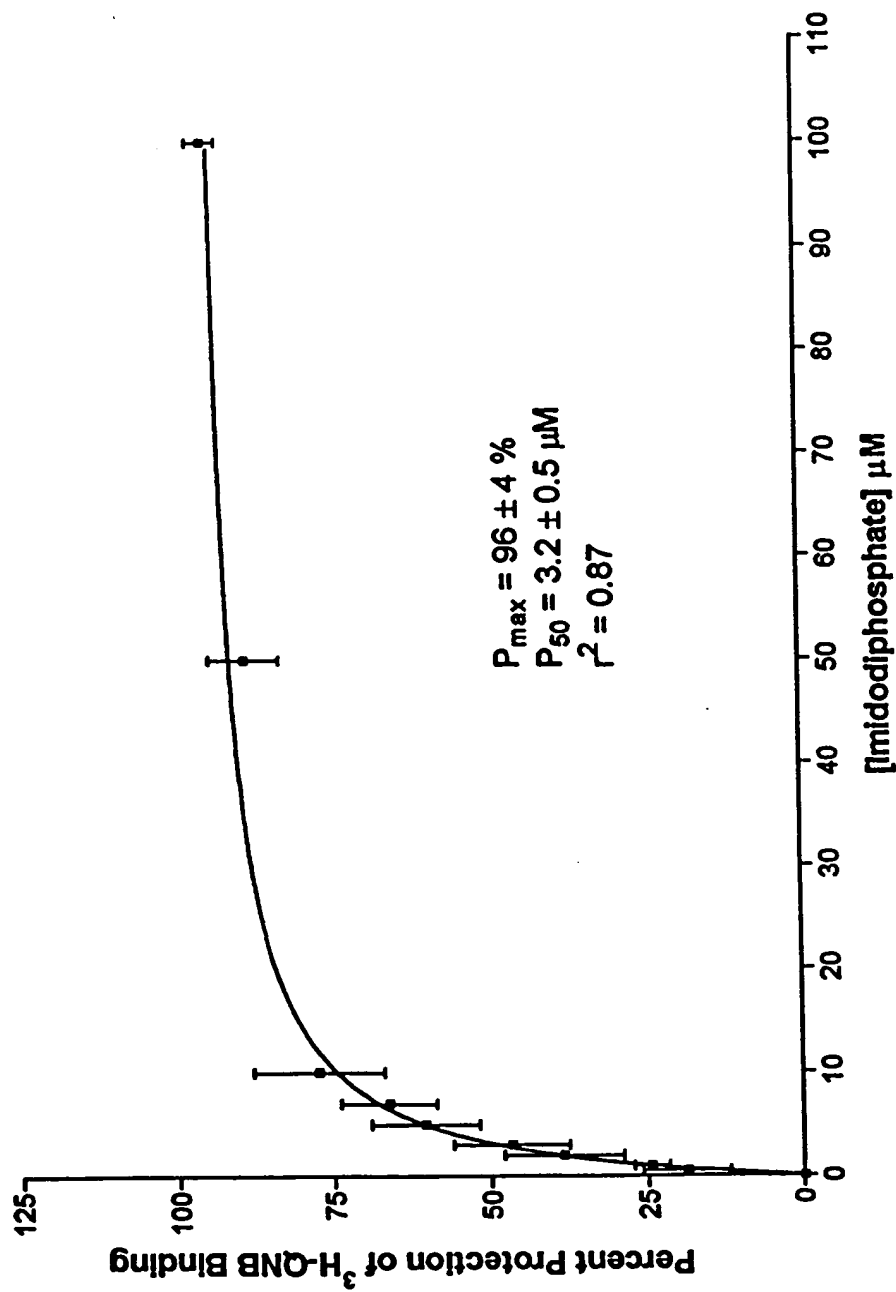
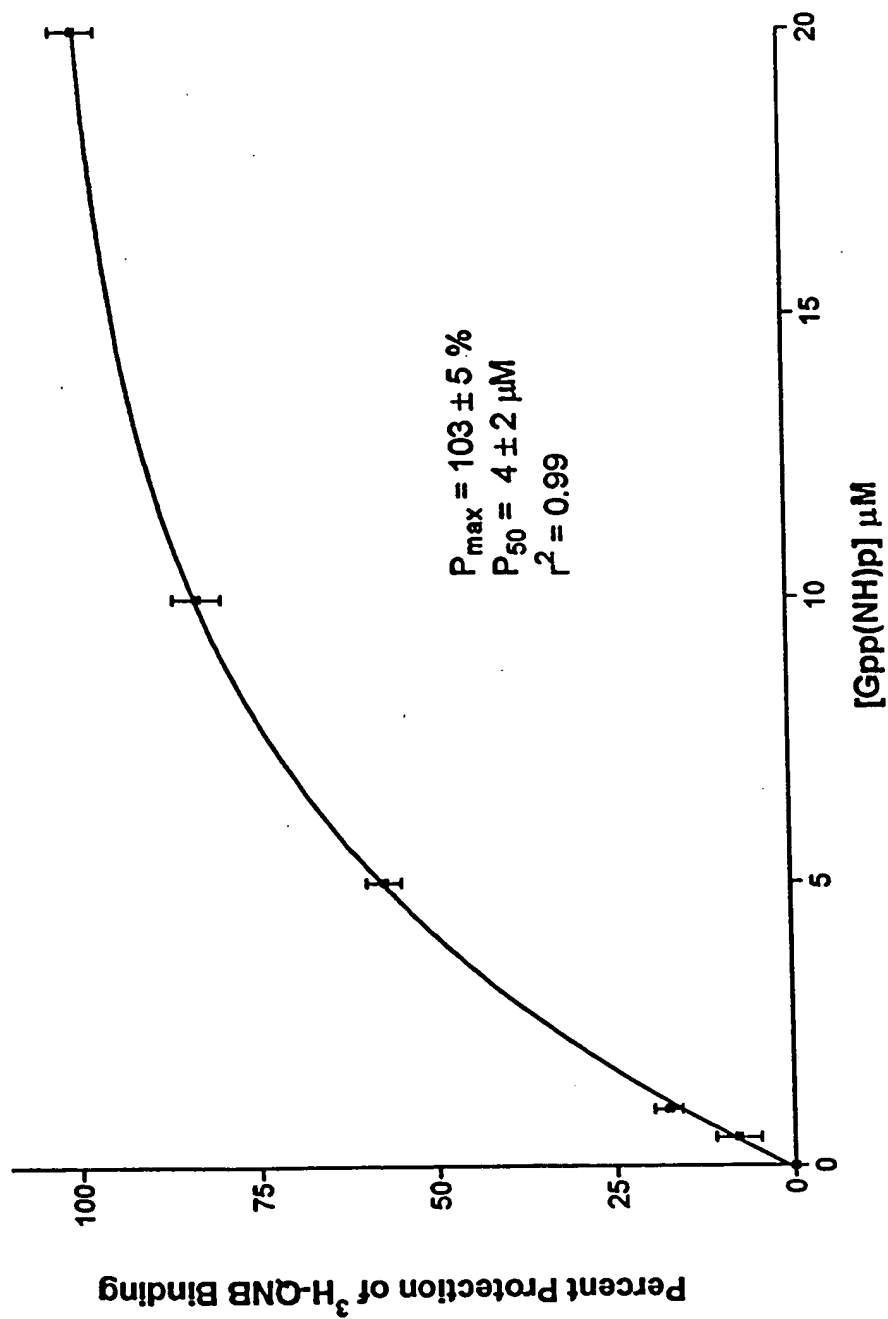


FIGURE 4

**Guanylimidodiphosphate Protects the mAChR  
from Inactivation by the LMW Inhibitor  
(n = 4)**



**FIGURE 5**

Adenylylimidophosphate protects the mAChR from  
inactivation by the LMW Inhibitor  
(n = 3)

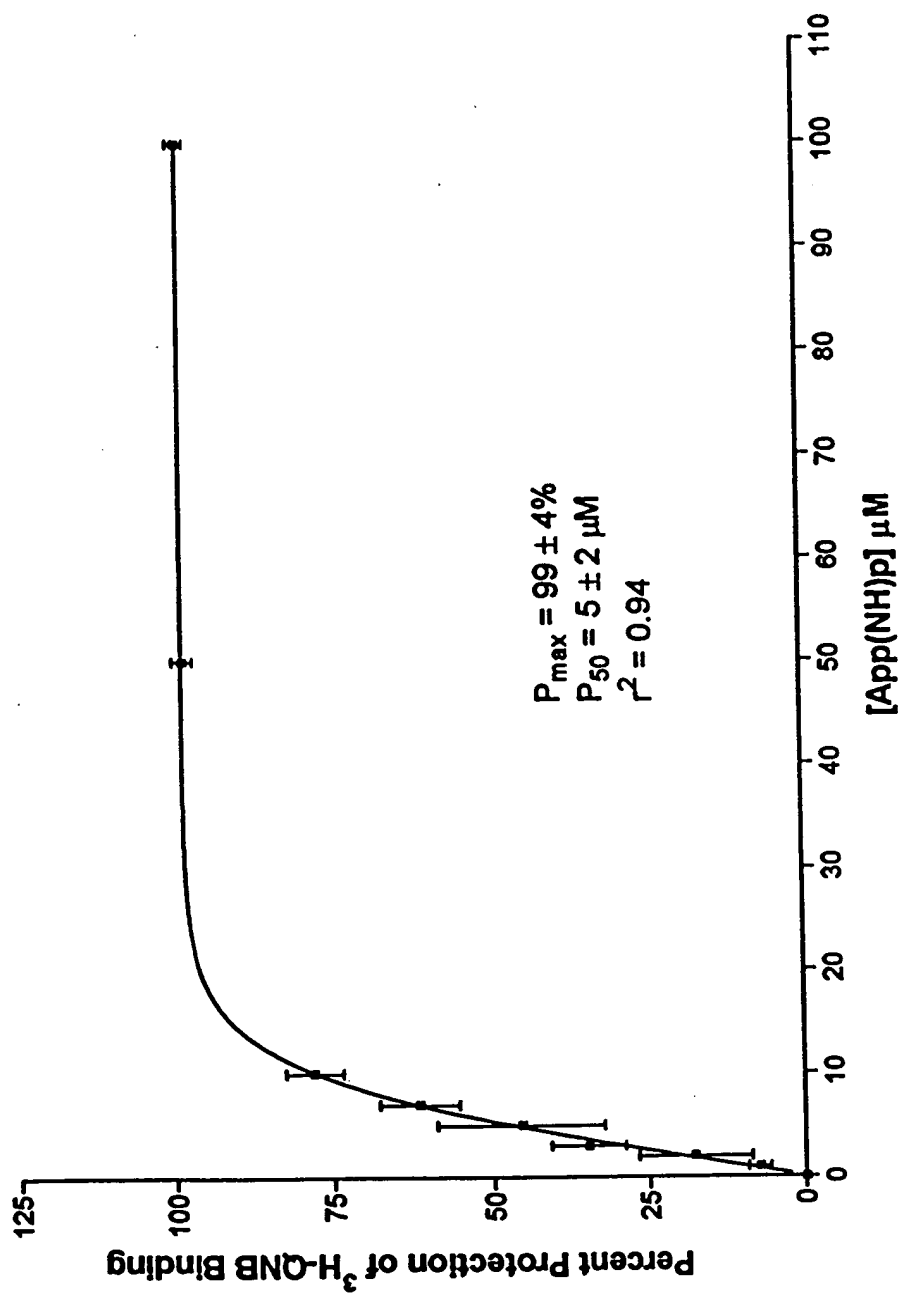
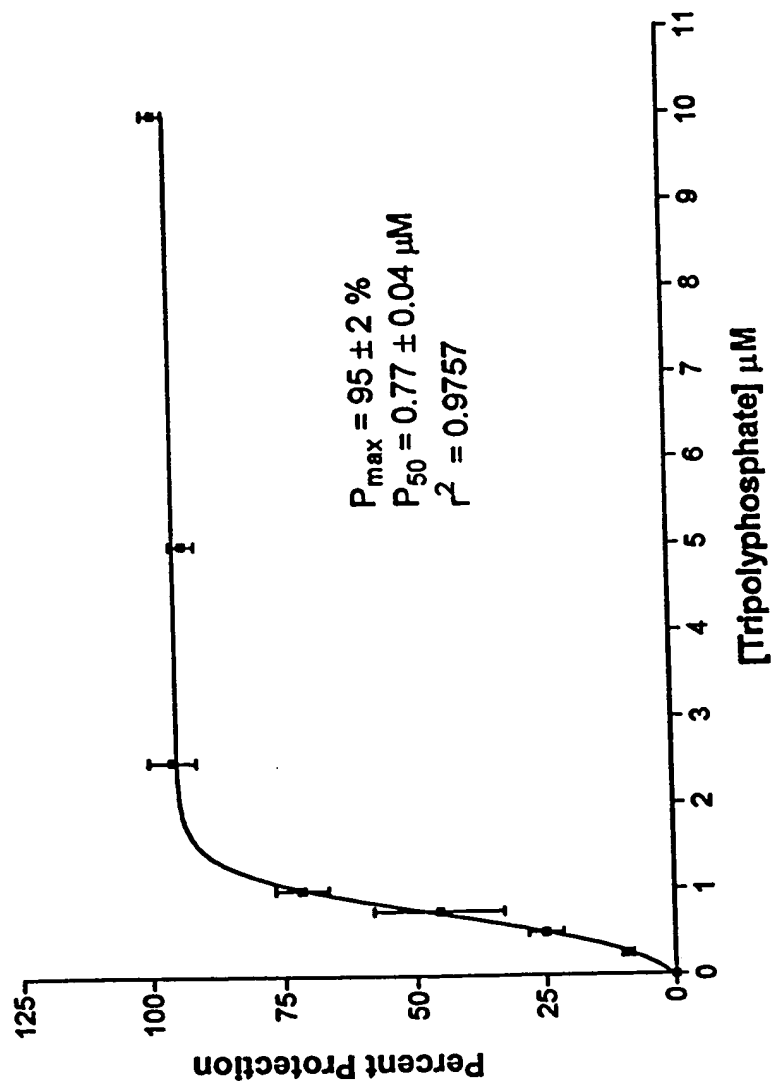


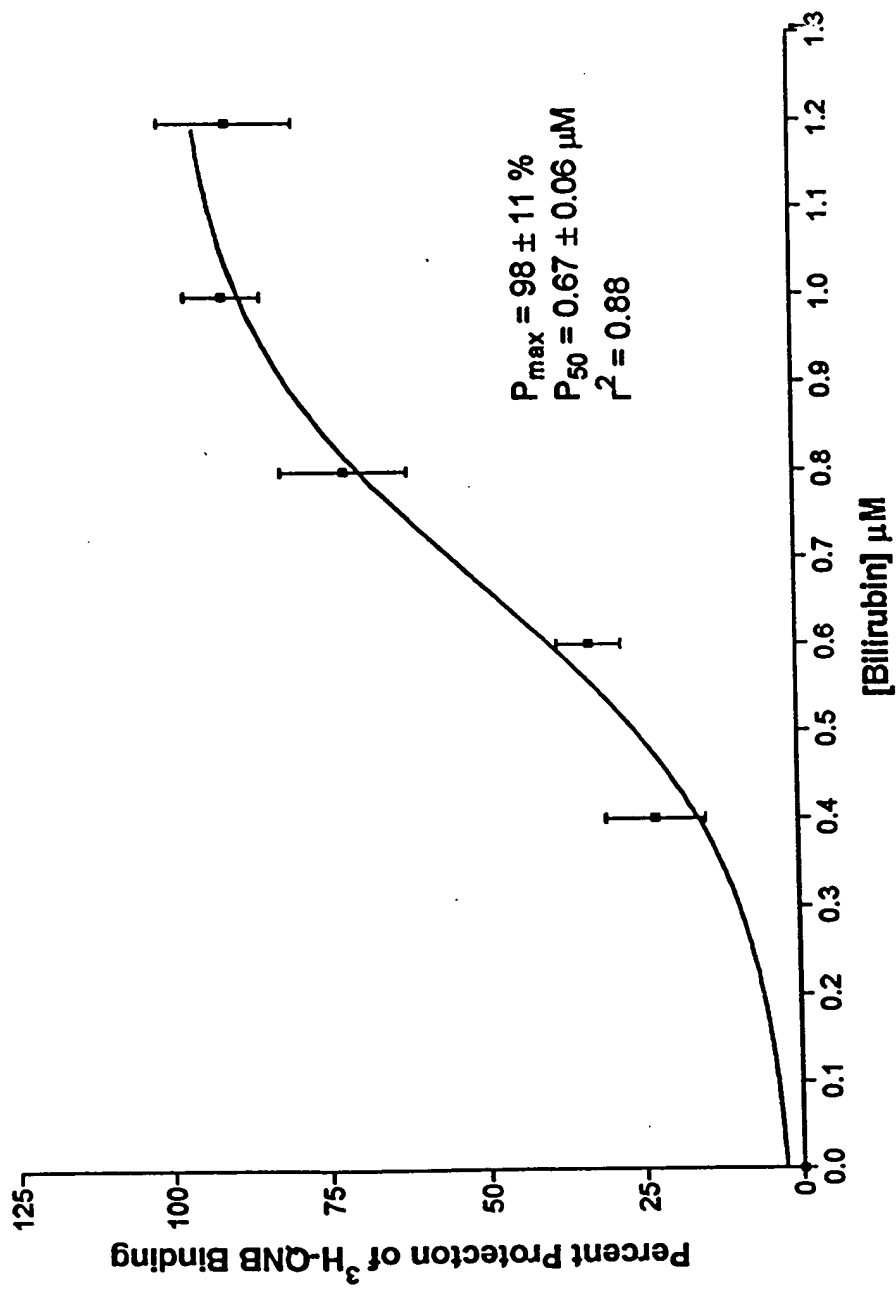
FIGURE 6

# **Tripolyphosphate Protects the mAChR from LMW Inhibitor Inactivation in Antagonist Binding Studies** (n = 4)



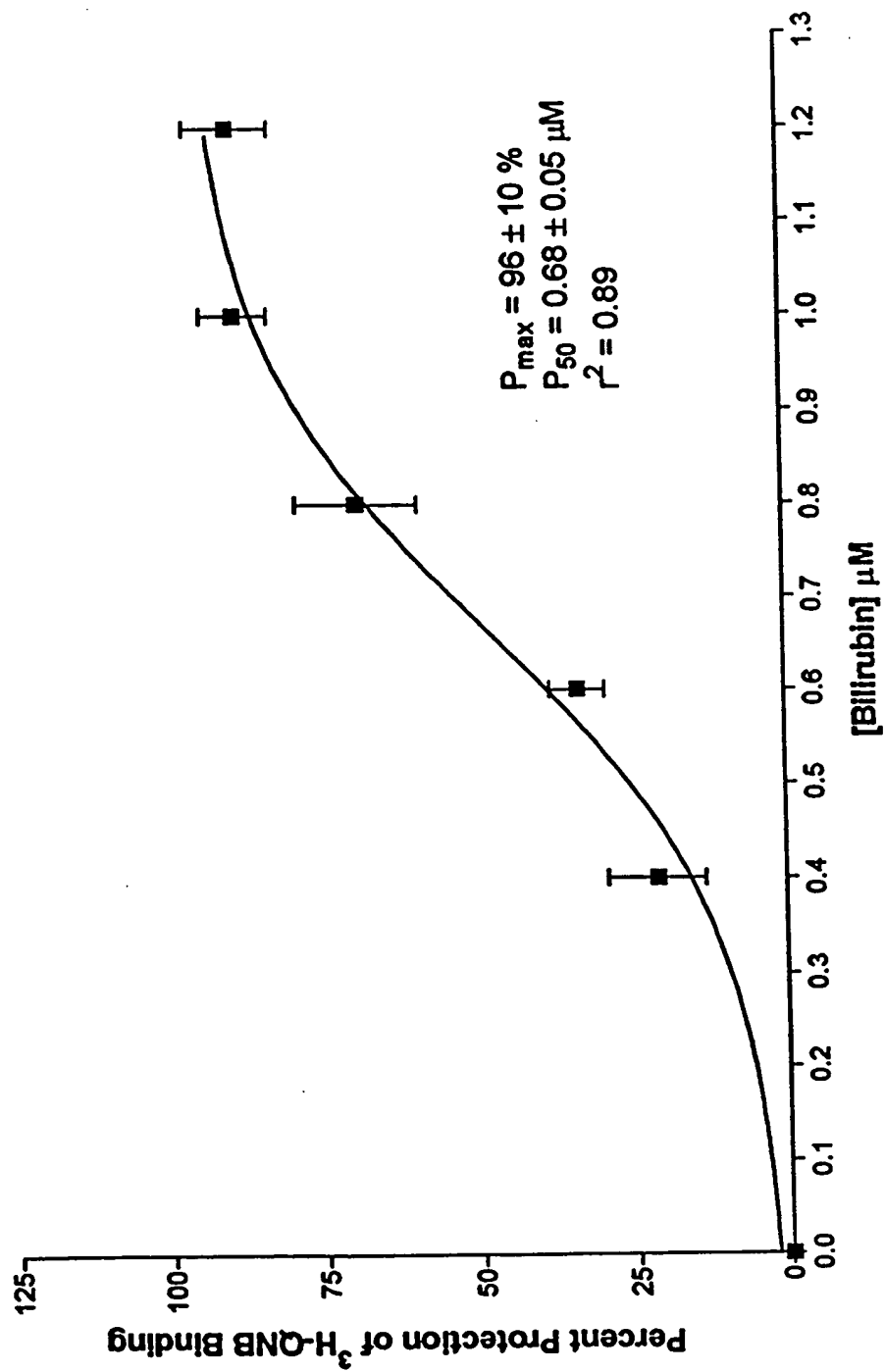
**FIGURE 7**

**Bilirubin Protects the mAChR from  
Inactivation by the LMW Inhibitor  
(n = 4)**



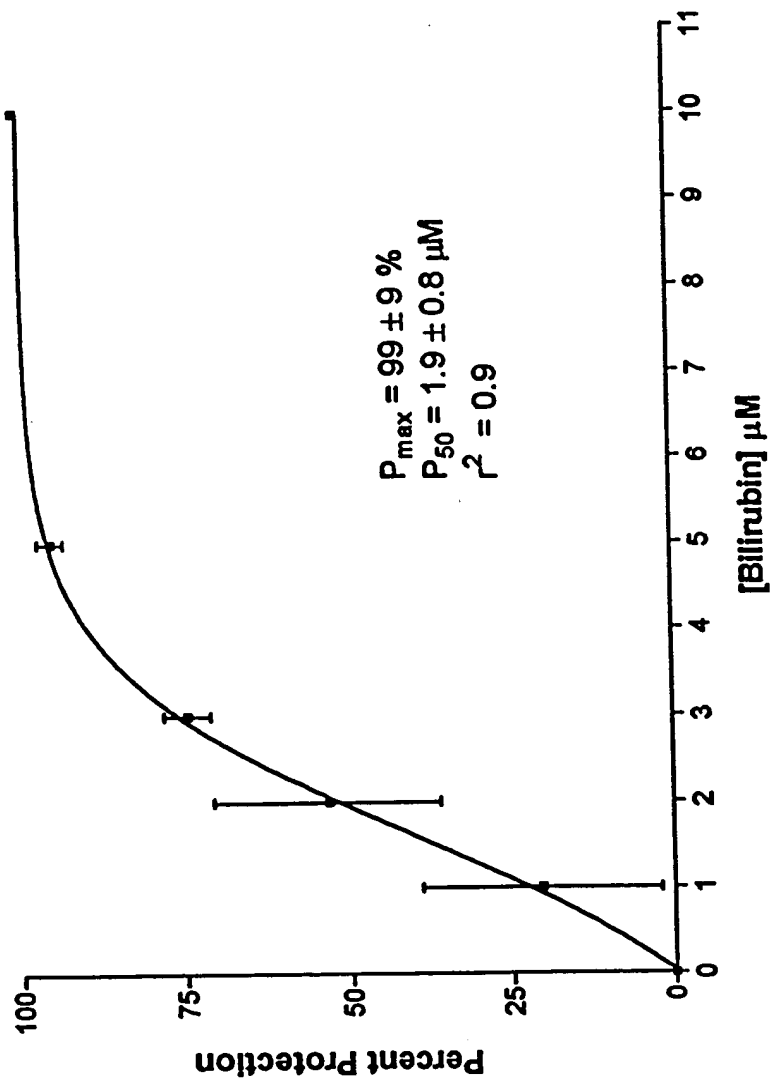
**FIGURE 8**

# **Bilirubin Protects the mAChR from Inactivation by 2.0 $\mu$ M Heme and 100 $\mu$ M Peroxide (n = 4)**



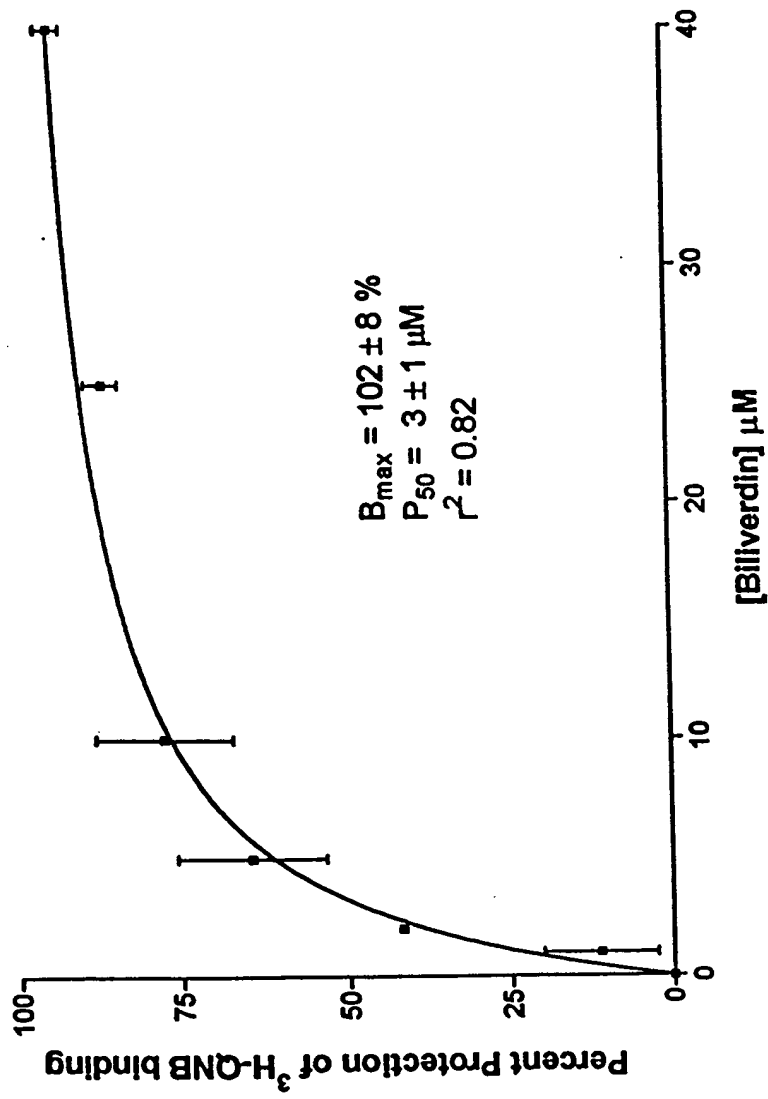
**FIGURE 9**

**Bilirubin Protects the mAChR from LMW inhibitor  
inactivation in the two step agonist (oxotremorine-m)  
binding assay  
(n = 3)**



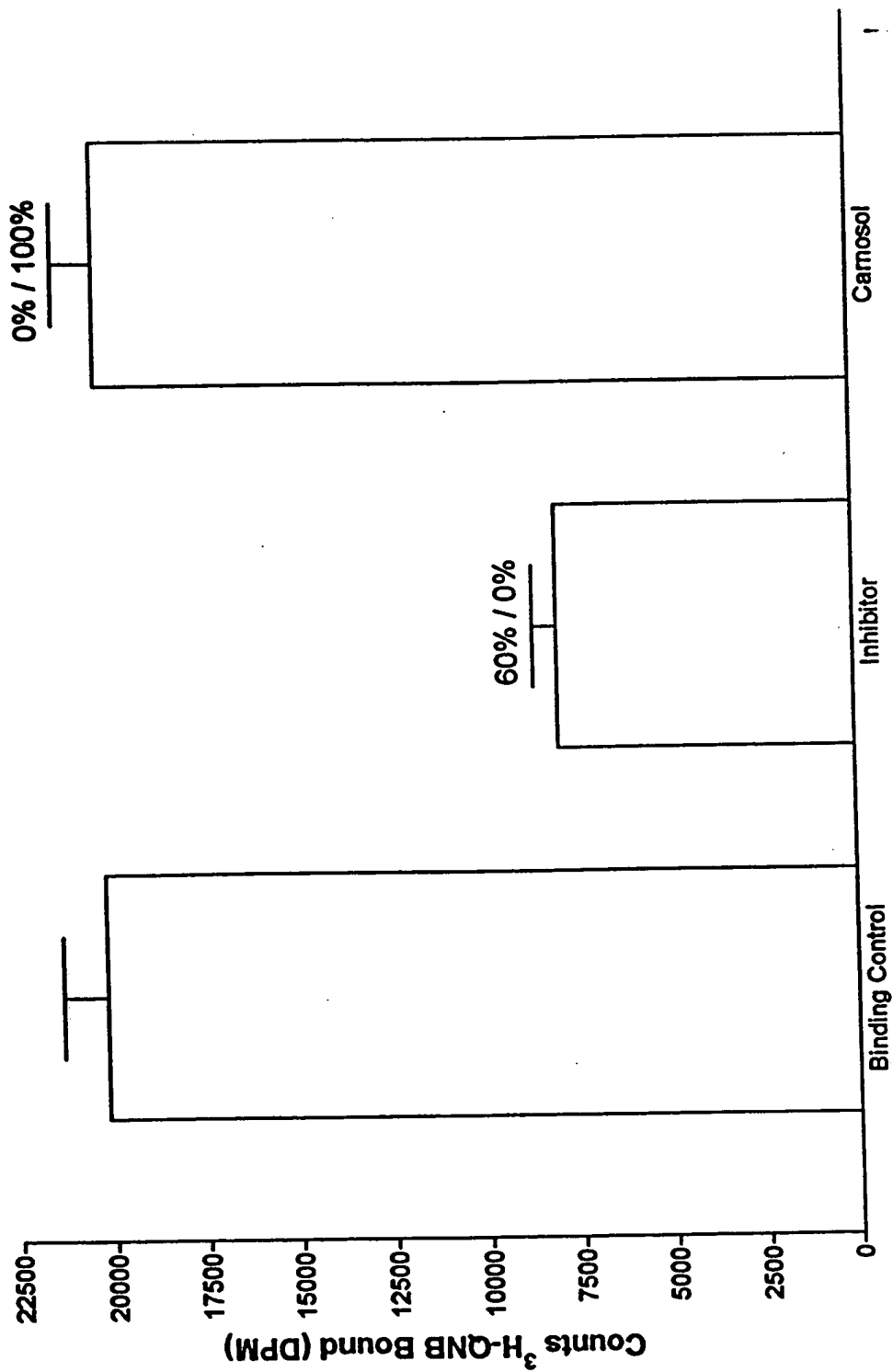
**FIGURE 10**

# **Billiverdin Protects the mAChR from Inactivation by the LMW Inhibitor (n = 7)**



**FIGURE 11**

**1 $\mu$ M Carnosol completely protects the mAChR  
from inactivation by the LMW Inhibitor.**



Percentages Represent: Percent inhibition/Percent Protection

**FIGURE 12**

# Quercetin protects the mAChR from inactivation by the LMW inhibitor (n = 3)

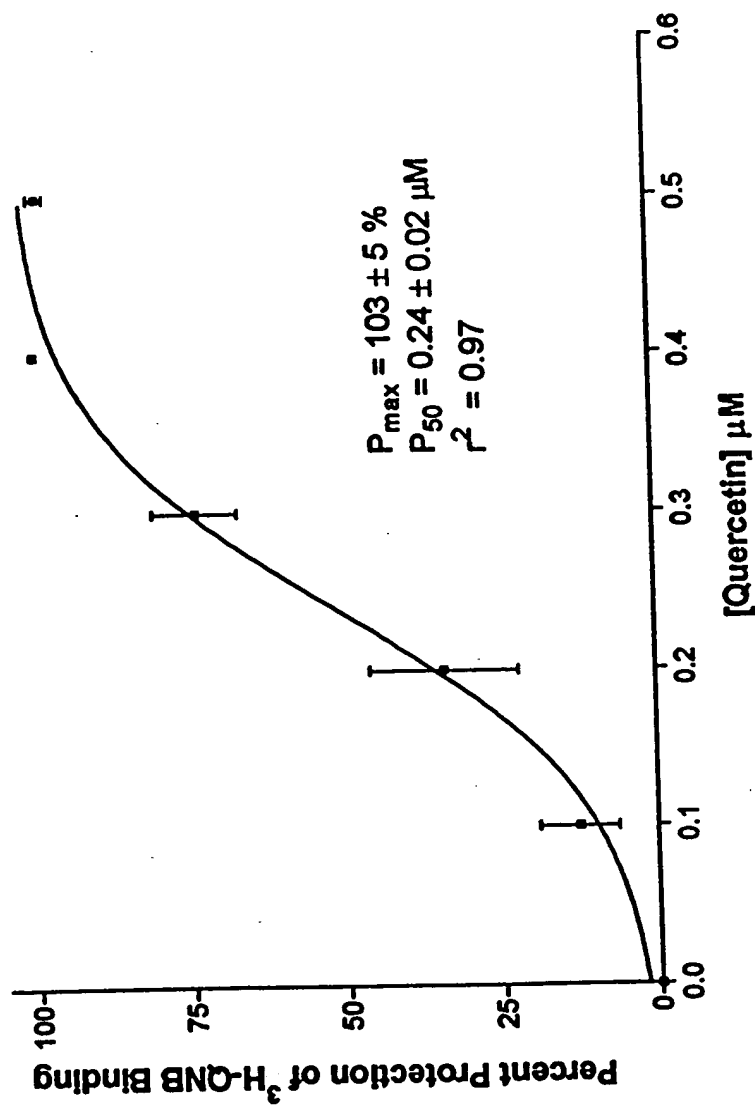
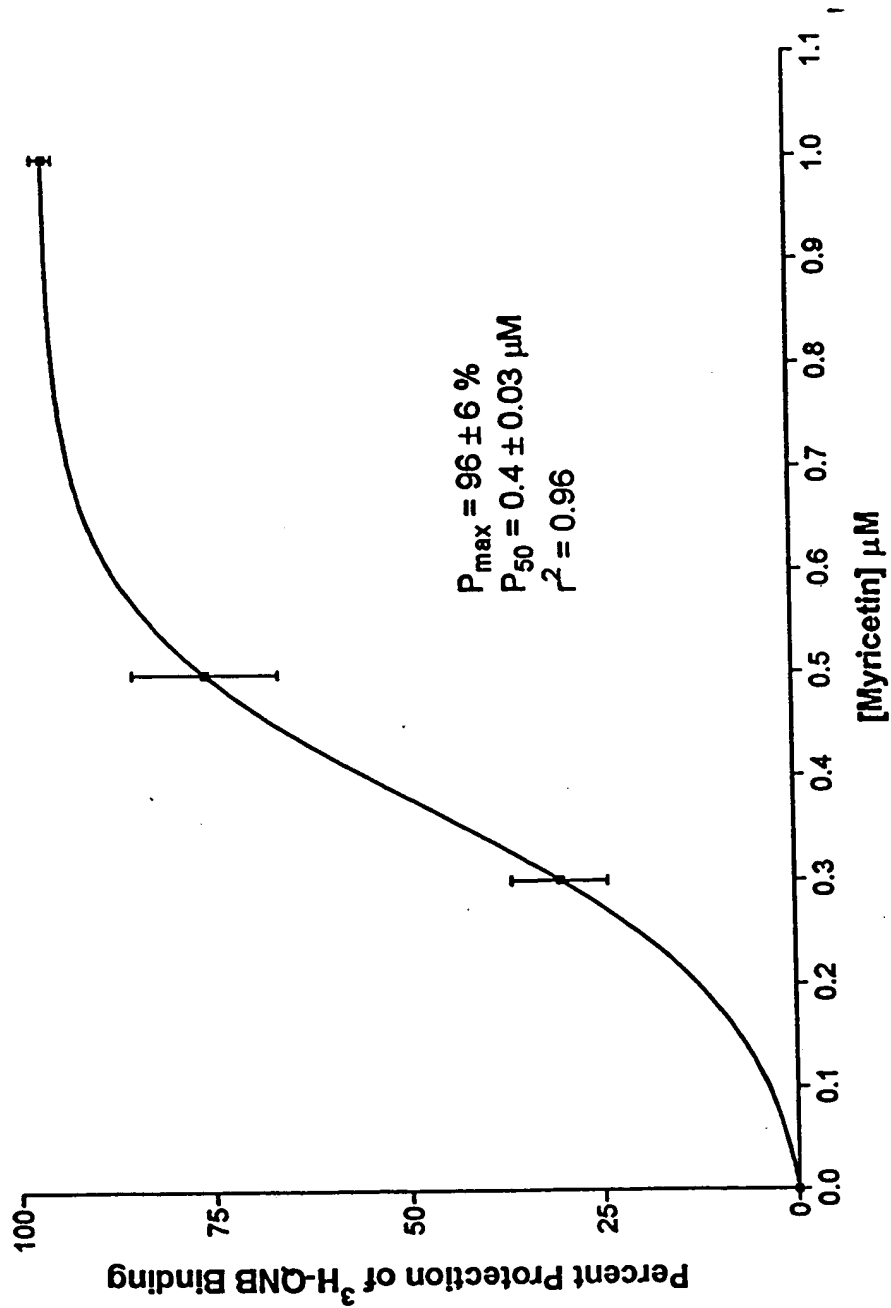


FIGURE 13

# **Myricetin Protects the mACHR from Inactivation by Heme and Peroxide**



**FIGURE 14**

# Catalase Protects the mAChR from Inactivation by the LMW Inhibitor

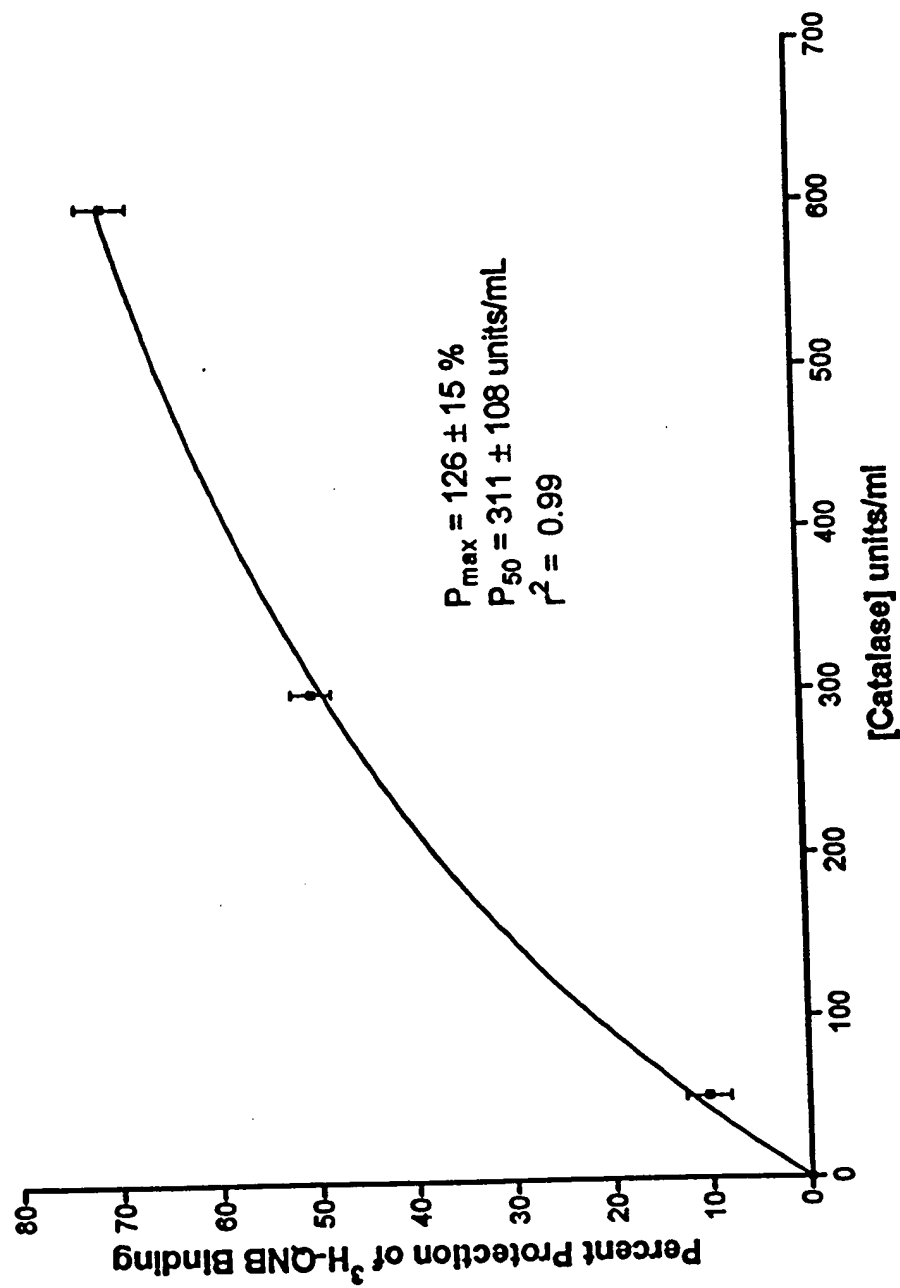
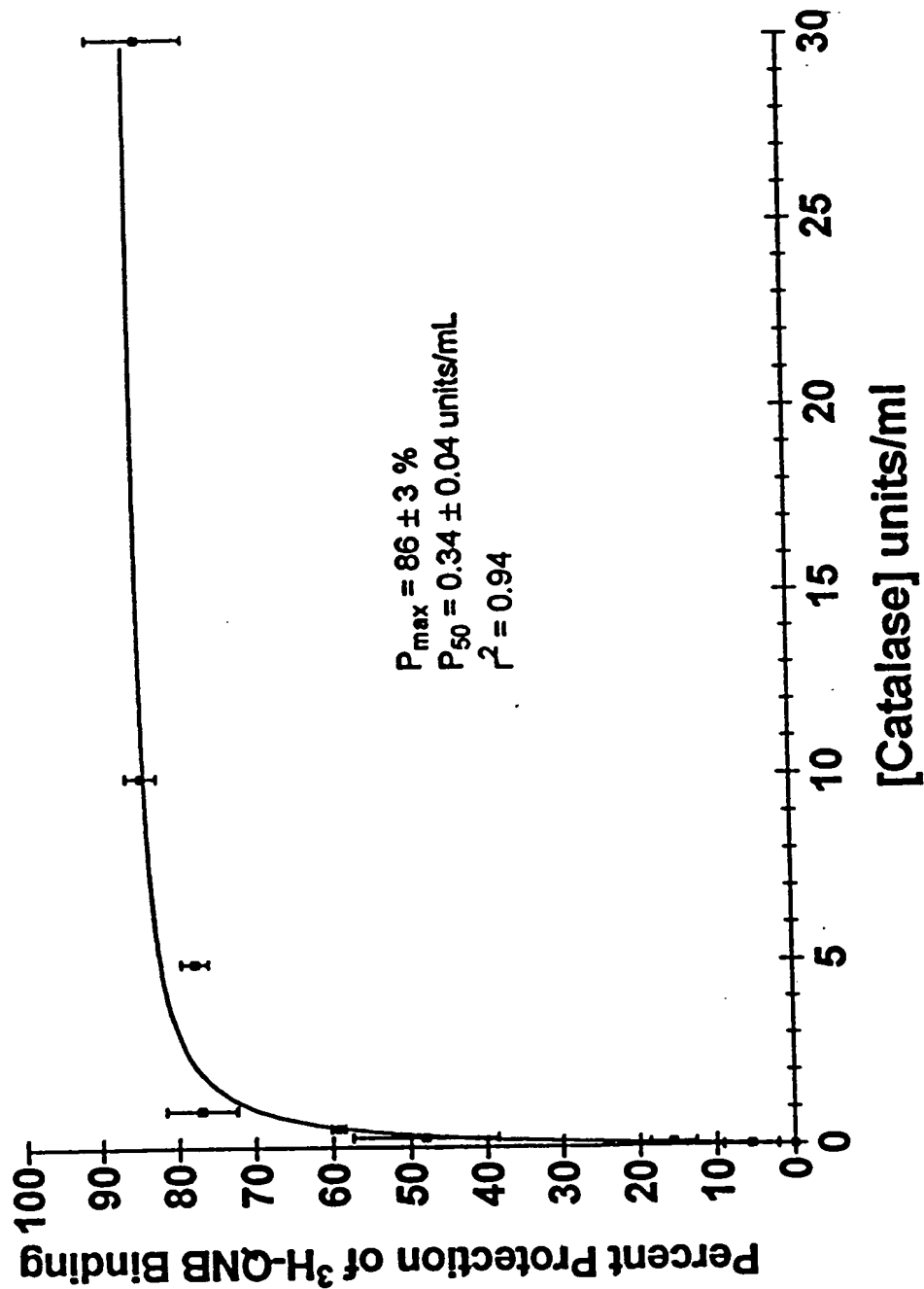


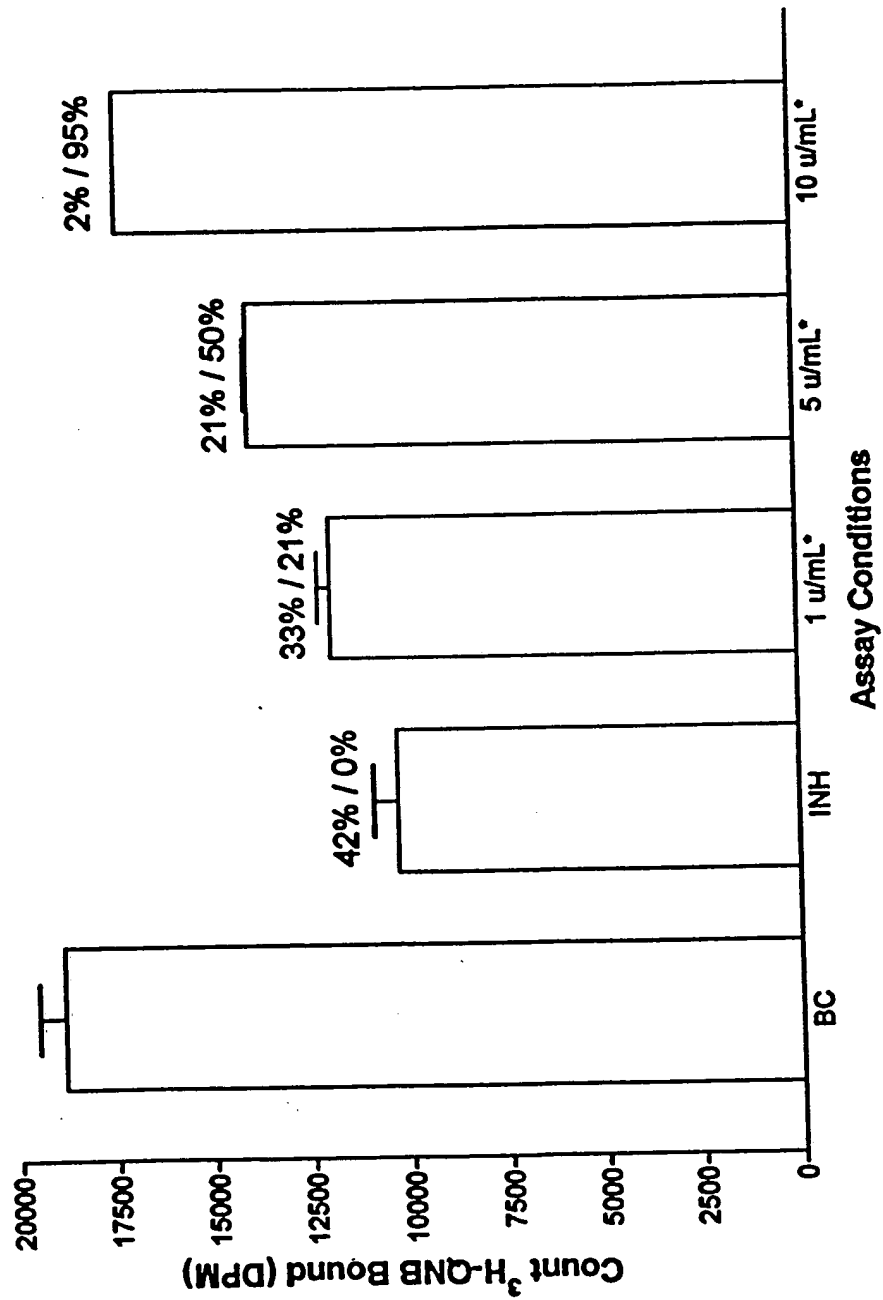
FIGURE 15

# **Catalase Protects the mAChR from Inactivation by 2.0 $\mu$ M Heme and 100 $\mu$ M Peroxide**



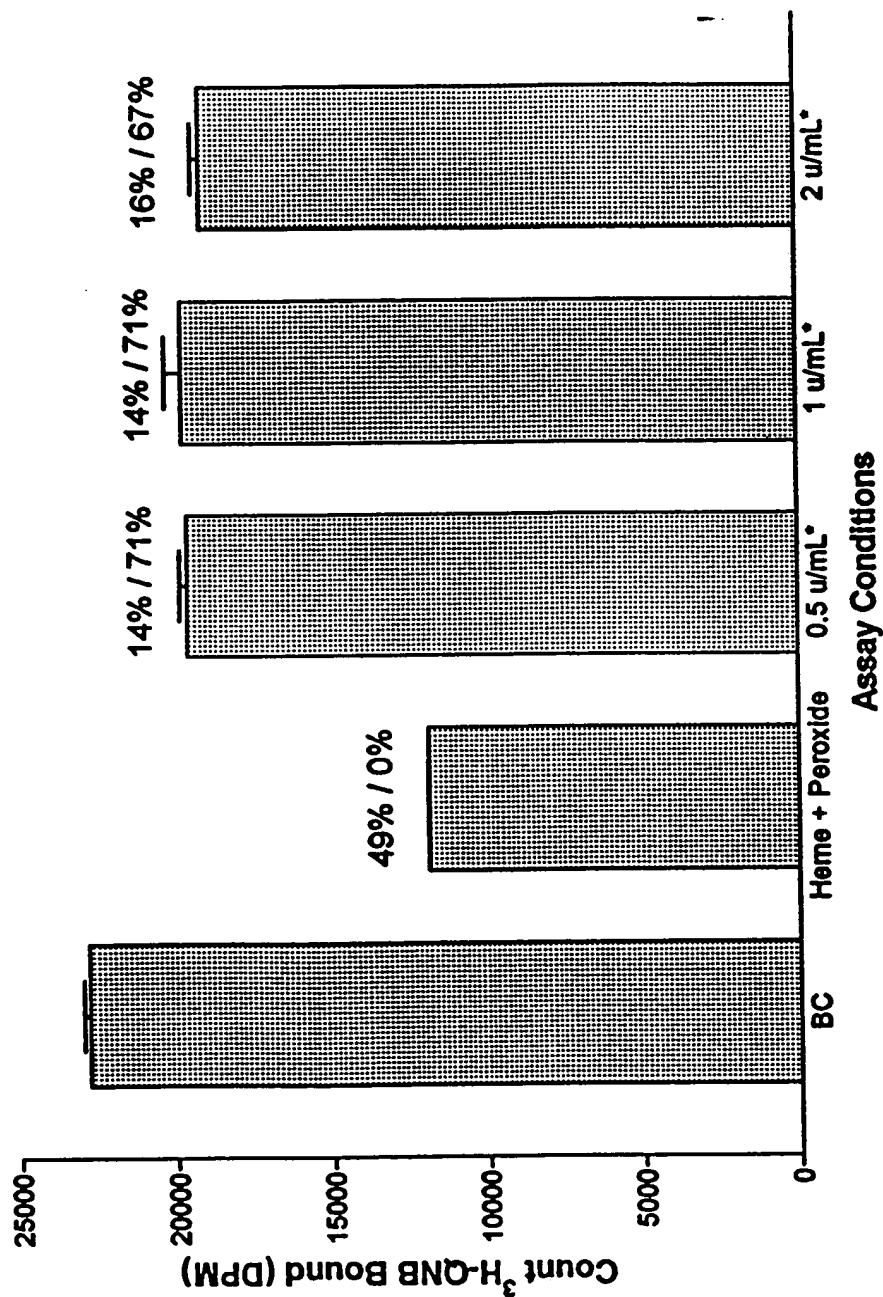
**FIGURE 16**

# Glutathione peroxidase protects the mAChR from inactivation by the LMW Inhibitor



\*Glutathione peroxidase concentration in the presence of the LMW Inhibitor  
Percentages represent: Percent Inhibition / Percent Protection

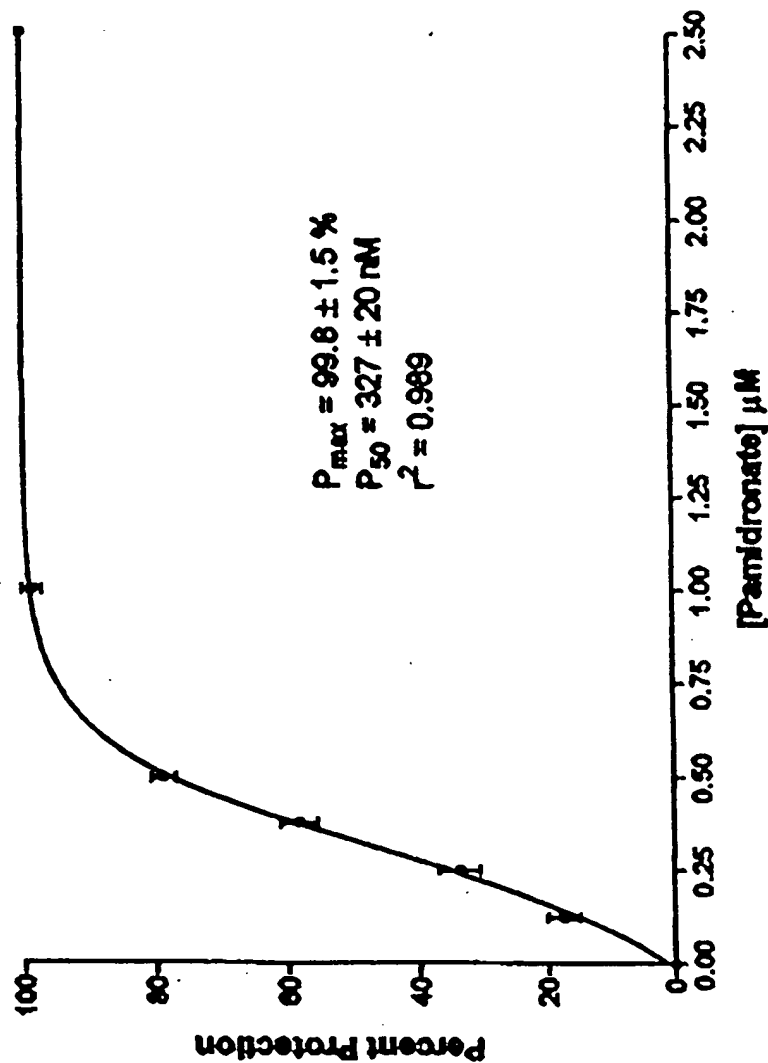
# Glutathione peroxidase protects the mACHR from inactivation by 2 $\mu$ M Heme and 100 $\mu$ M $H_2O_2$



\*Glutathione peroxidase concentration in the presence of Heme and Peroxide  
Percentages represent: Percent Inhibition / Percent Protection

FIGURE 18

**Pamidronate (the active component of Aredia®)  
Protects the mAChR from Inactivation  
by the LMW Inhibitor  
(n=4)**



\*Aredia is a drug manufactured by Novartis and is a bone-resorption inhibitor for treatment of hypercalcaemia. All assay tubes contained 7.94 mM Mannitol a component of Aredia which had no effect on binding or inhibition.

# Pyrophosphate Protects the mAChR from damage by 160 $\mu\text{M}$ $\text{PbCl}_2$

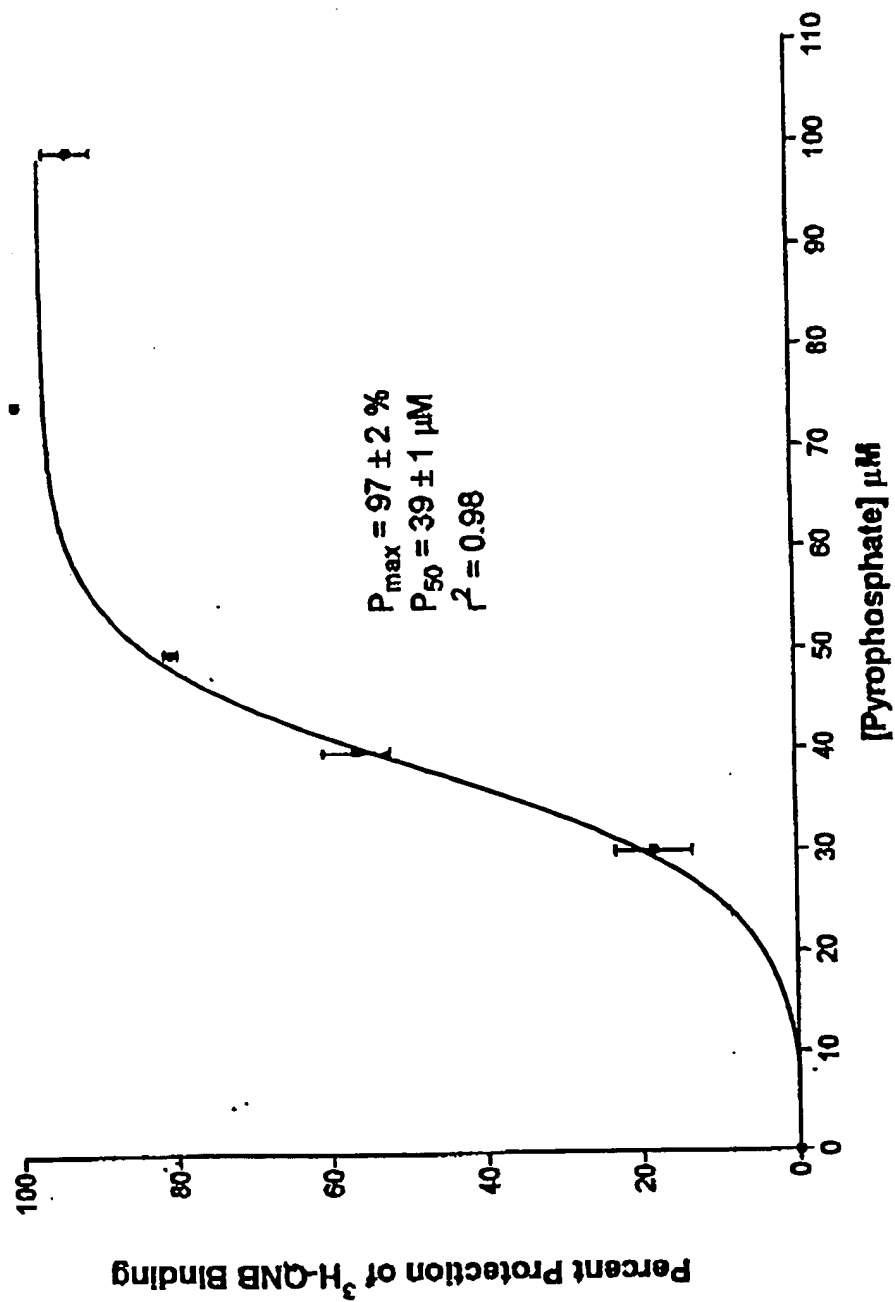


FIGURE 20